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Appl. No. 10/612,112

January 30, 2004

### Claims

1. A probe of a medical instrument that is intended for insertion into a patient's body orifice, such probe has the outer surface which is shaped to contain at least one cavity.
2. A probe of claim 1 where said cavity is covered by outer skin that is permanently attached to  
5 said outer surface.
3. A probe of claim 1 where more than one cavities formed on said outer surface are separated by ridges.
4. A probe of claim 3 where said cavities are randomly distributed along said outer surface.
5. A probe of claim 1 is fabricated of material having low thermal conductivity
- 10 6. A probe of claim 1 further comprises a polymer probe cover that envelopes said outer surface.
7. A method of thermal insulation of a medical probe, comprising a step of forming indentations on the outer surface of the probe.
8. A method of thermal insulation of a medical probe of claim 7, further comprising a step of covering said indentations with a layer of protective material having low thermal conductivity.

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